

CLAIMS

1. Bulk material cooling device with a fixed cooling grate (11) which carries the material to be cooled (e.g. hot cement clinker) and through which cooling air (10) flows. Above the fixed grate area (12), there are beam-shaped push elements (13a to 13c) arranged in several neighboring rows at right angles to the material transport direction which move backwards and forwards. They are movable between a pre-stroke position in the material transport direction and a return-stroke position and transport the material successively from the cooler start to the cooler end.
It is characterized by the push elements (13a to 13c) which are formed as hollow bodies through which a cooling medium (10) flows which cools them from the inside.

2. Bulk material cooling device in accordance with Claim 1, characterized by the push elements (13a to 13c) which feature cooling medium intake openings (14) in their lower area and cooling medium outlet openings (15) in the area which moves in the bulk material bed.

3. Bulk material cooling device in accordance with Claim 1, characterized by the cooling medium which is cooling air and/or cooling water.